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This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

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# English

## 1. Feature Introduction

### 1-1. U8568 Pro Features (for V1.0)

**CPU**

- Provides Socket-478.
- Supports the Intel Pentium 4 processor up to 2.8GHz.
- Running at 400/533MHz *Front Side Bus*.

**Chipset**

North Bridge: VIA VT 8753E(P4X266E).  
South Bridge: VT8235.

**Super I/O**

Chipset - ITE IT8705.

**Main Memory**

- Supports 2 SDR devices or 2 DDR devices.
- Supports 200/266 MHz(without ECC) DDR SDRAM or PC100/133 SDRAM.
- The largest memory capacity is 2GB.

**Slots**

- Five 32-bit PCI bus master slots.
- One CNR slot.
- One AGP slot.

**On Board IDE**

- Supports four IDE disk drives.
- Supports PIO Mode 4, Master Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

**1394 Chip(Optional)**

- Support 3 ports with transfer rate up to 400Mbps.

**Audio**

- CMI 8738.
- 6CH DAC for AC3®.
- Supports 4.1/5.1 speakers, C3DX positional audio in 4/6CH speakers mode.
- Built in ZV port.

**On Board Peripherals**

- Supports 360K, 720K, 1.2MB, 1.44MB and 2.88MB floppy disk drivers.
- Supports 2 serial ports.
- Supports 1 multi-mode parallel port. (SPP/EPP/ECP mode)
- Supports PS/2 mouse and PS/2 keyboard.
- Supports 2 back USB2.0 ports and 4 front USB2.0 ports.

**BIOS**

- AWARD legal Bios.
- Supports APM1.2.
- Supports ACPI.
- Supports USB Function.

**Operating System**

- Offers the highest performance for MS-DOS, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

**Dimensions**

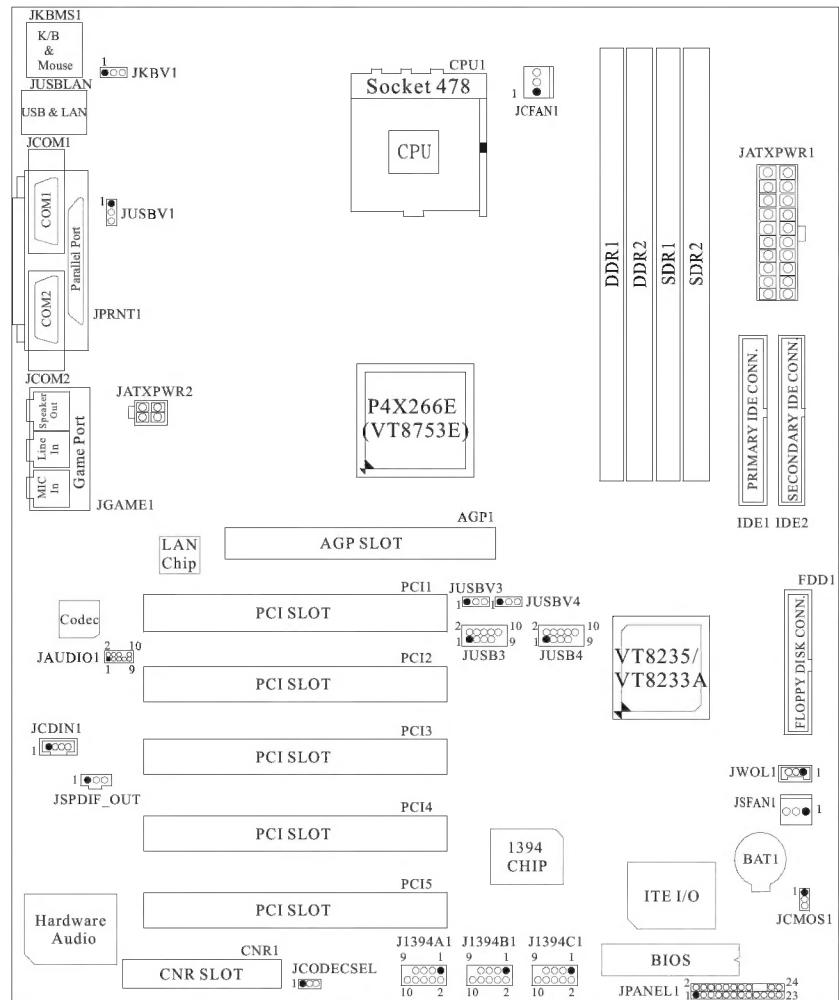
- ATX Form Factor: 24.5cm X 30.5cm (W X L)

**1-2. Package Contents**

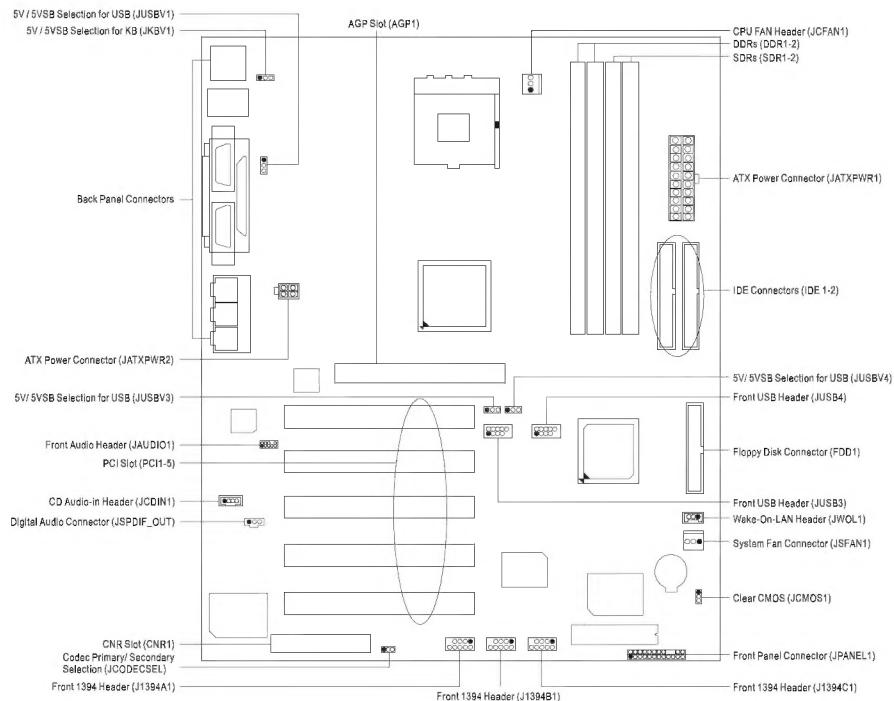
1. HDD Cable.
2. FDD Cable.
3. Flash Memory Writer for BIOS Update.
4. USB Cable (Optional).
5. Rear I/O Panel for MATX Case (Optional).
6. Fully Setup Driver CD.

## 2. Mainboard Configuration

### 2-1. Layout of U8568 Pro

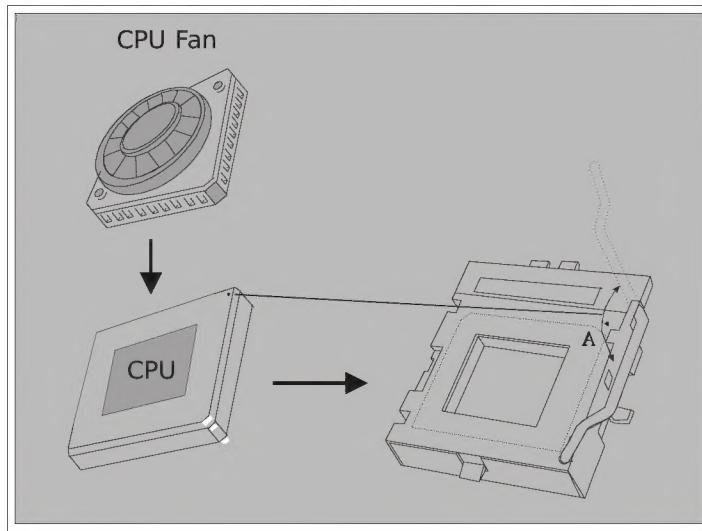


## 2-2. Component Index

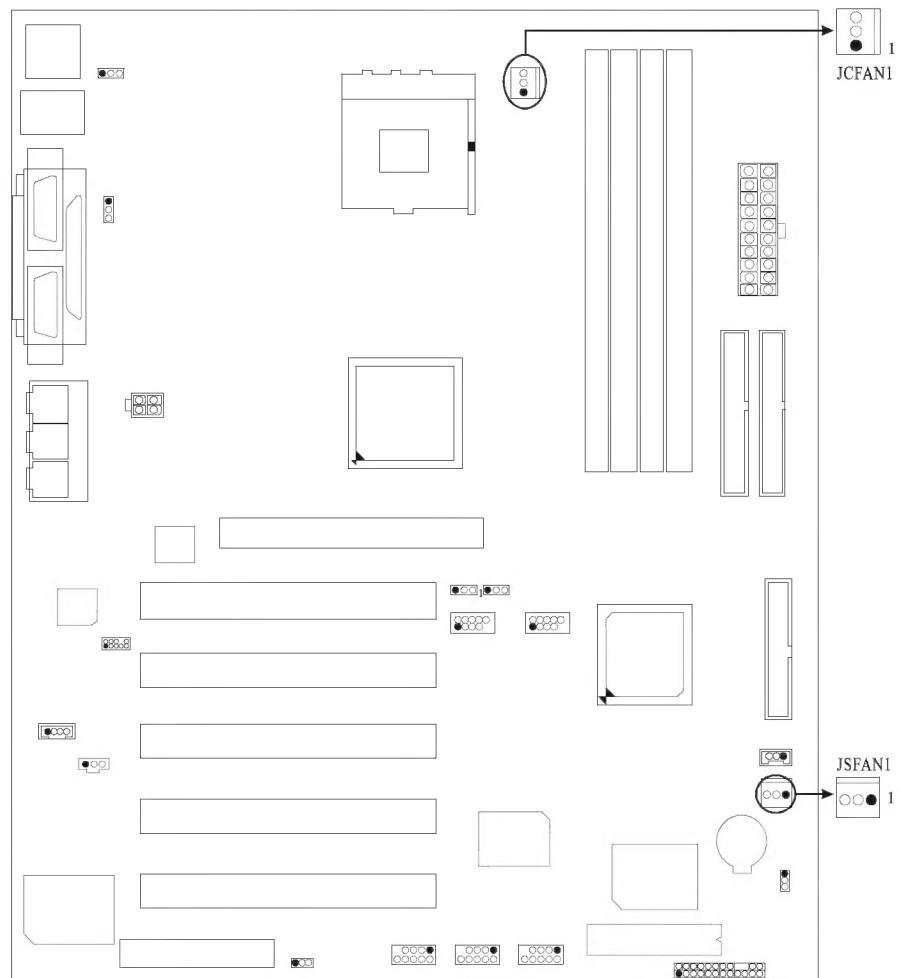


### 3. CPU Configuration

#### 3-1. CPU Socket 478 Configuration Steps:



1. Pull the lever sideways away from the socket then raise the lever up to a 90-degree angle.
2. Locate Pin A in the socket and look for the white dot or cut edge in the CPU. Match Pin A with the white dot/cut edge then insert the CPU.
3. Press the lever down. Then Put the fan on the CPU and buckle it and put the fan's power port into the JCFAN1, then to complete the installation.

**CPU Configuration Layout**

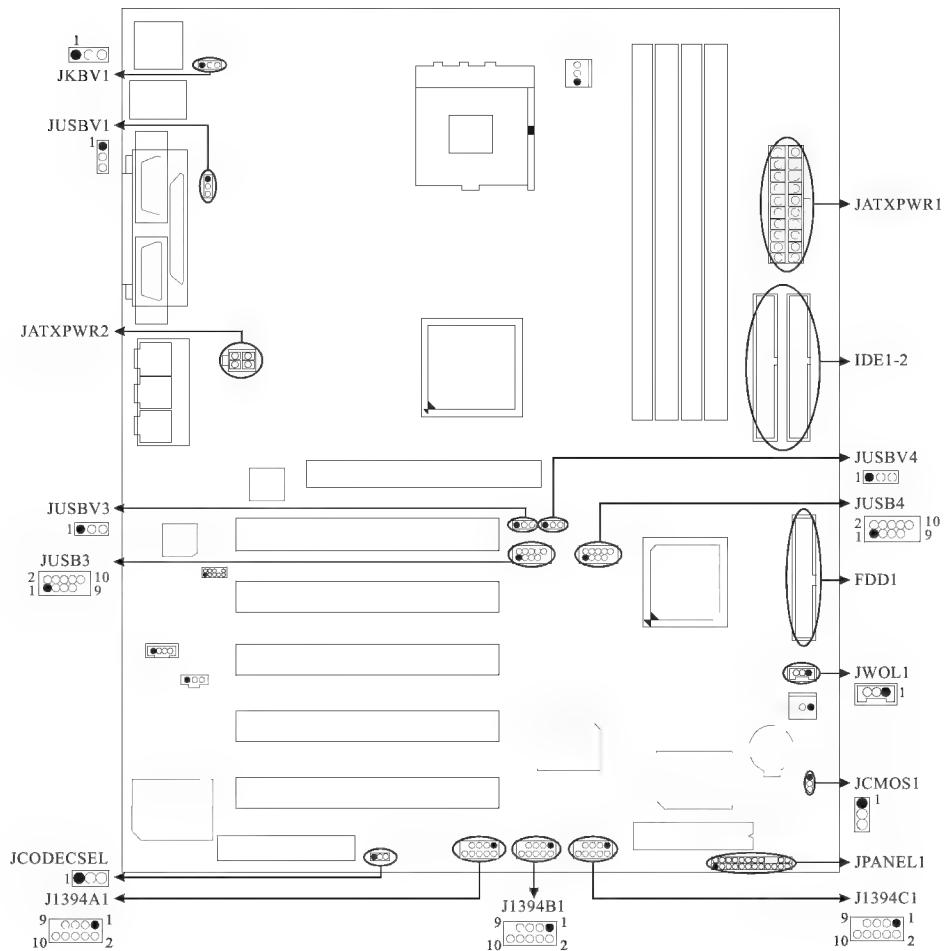
**3-2. CPU Fan Header: JCFAN1**

Pin No.	Assignment
1	Ground
2	+12V
3	Sense

**3-3. System Fan Header: JSFAN1**

Pin No.	Assignment
1	Ground
2	+12V
3	Sense

## 4. Jumpers, Headers & Connectors



## 4-1. Front Panel Connector: J PANEL1

<b>Pin No.</b>	<b>Assignment</b>	<b>Function</b>	<b>Pin No.</b>	<b>Assignment</b>	<b>Function</b>
<b>1</b>	+5V	Speaker Connector	<b>2</b>	Sleep Control	Sleep
<b>3</b>	NA		<b>4</b>	Ground	Button
<b>5</b>	NA		<b>6</b>	NA	NA
<b>7</b>	Speaker		<b>8</b>	Power LED (+)	POWER LED
<b>9</b>	HDD LED (+)	Hard Drive LED	<b>10</b>	Power LED (+)	
<b>11</b>	HDD LED (-)		<b>12</b>	Power LED (-)	
<b>13</b>	Ground	Reset Button	<b>14</b>	Power Button	Power-on
<b>15</b>	Reset Control		<b>16</b>	Ground	Button
<b>17</b>	NA	IrDA Connector	<b>18</b>	KEY	IrDA Connector
<b>19</b>	NA		<b>20</b>	KEY	
<b>21</b>	VCC5		<b>22</b>	Ground	
<b>23</b>	IRTX		<b>24</b>	IRRX	

### SPK (Speaker Connector)

An offboard speaker can be installed on the motherboard as a manufacturing option. An offboard speaker can be connected to the motherboard at the front panel connector. The speaker (onboard or offboard) provides error beep code information during the Power On Self-Test when the computer cannot use the video interface. The speaker is not connected to the audio subsystem and does not receive output from the audio subsystem.

### RST (Reset Button)

This connector can be attached to a momentary SPST switch. This switch is usually open and when closed will cause the motherboard to reset and run the POST (Power On Self Test).

**POW-LED (Power LED Connector)**

This connector can be attached to an LED on the front panel of a computer case. The LED will illuminate while the computer is powered on.

**HLED (Hard Drive LED Connector)**

This connector can be attached to an LED on the front panel of a computer case. The LED will flicker during disk activity. This disk activity only applies to those IDE drives directly attached to the system board.

**IR (Infrared Connector)**

This connector is used to attach to an infrared sensing device. After the IrDA interface is configured, connectionless data transfer to and from portable devices such as laptops, PDAs is possible.

**SLP (Sleep/ Green Button)**

This connector is used to conserve energy by powering down the monitor and the hard disk when not in use. To configure this option, you need to connect a button from the front panel to this connector. Depressing the button will power down the monitor and hard drives until the system is invoked by any keyboard activity, mouse activity, modem activity or when the sleep button is depressed again. APM (Advanced Power Management) must be enabled in the system BIOS and the APM driver must be loaded.

**ON/ OFF (Power Button)**

This connector can be attached to a front panel power switch. The switch must pull the Power Button pin to ground for at least 50 ms to signal the power supply to switch on or off. (The time required is due to internal debounce circuitry on the system board). At least two seconds must pass before the power supply will recognize another on/off signal.

#### 4-2. ATX 20-pin Power Connector: JATXPWR1

PIN	Assignment	PIN	Assignment
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	Ground	13	Ground
4	+5V	14	PS_ON
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	PW_OK	18	-5V
9	+5V_SB	19	+5V
10	+12V	20	+5V

#### 4-3. Hard Disk Connectors: IDE1/ IDE2

This mainboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA / 33, Ultra DMA / 66,Ultra DMA / 100 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

- **IDE1 (Primary IDE Connector)**

The first hard drive should always be connected to IDE1. IDE1 can connect a Master and a Slave drive. You must configure the second hard drive on IDE1 to Slave mode by setting the jumper accordingly.

- **IDE2 (Secondary IDE Connector)**

The IDE2 controller can also support a Master and a Slave drive. The configuration is similar to IDE1. The second drive on this controller must be set to slave mode.

#### 4-4. Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector (FDC) that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

#### 4-5. Wake On LAN Header: J WOL1

Pin No.	Assignment
1	+5V SB
2	Ground
3	Wake up

#### 4-6. Clear CMOS Jumper: J CMOS1

J CMOS1	Assignment
1 [ ] [ ] [ ] 3 1-2 Closed	Normal Operation (default)
1 [ ] [ ] [ ] 3 2-3 Closed	Clear CMOS Data



The following procedures are for resetting the BIOS password. It is important to follow these instructions closely.

#### \* Clear CMOS Procedures:

1. Remove AC power line.
2. Make J CMOS1 (2-3) closed.
3. Wait for five seconds.
4. Make J CMOS1 (1-2) closed.
5. Let AC power on.
6. Reset your desired password or clear the CMOS data.

#### **4-7. Front USB Header: J USB3**

(J USB3)

Pin	Assignment	Pin	Assignment
<b>1</b>	+5V(fused)	<b>2</b>	+5V(fused)
<b>3</b>	USBP2-	<b>4</b>	USBP3-
<b>5</b>	USBP2+	<b>6</b>	USBP3+
<b>7</b>	Ground	<b>8</b>	Ground
<b>9</b>	KEY	<b>10</b>	NC

#### **4-8. Front USB Header: J USB4**

(only for South Bridge VT8235)

(J USB4)

Pin	Assignment	Pin	Assignment
<b>1</b>	+5V(fused)	<b>2</b>	+5V(fused)
<b>3</b>	USBP2-	<b>4</b>	USBP3-
<b>5</b>	USBP2+	<b>6</b>	USBP3+
<b>7</b>	Ground	<b>8</b>	Ground
<b>9</b>	KEY	<b>10</b>	NC

#### **4-9. 5V / 5VSB Selection for KB: J KBV1**

J KBV1	Assignment
1 [ ] [ ] 3 1-2 Closed	5V
1 [ ] [ ] 3 2-3 Closed	5V_SB

#### **4-10. ATX 12V Power Connector: J ATXPWR2**

PIN	Assignment	PIN	Assignment
1	+12V	3	Ground
2	+12V	4	Ground

**4-11. 5V / 5VSB Selection for USB: J USBV1**

J USBV1	Assignment
1 [ ] [ ] [ ] 3 1-2 Closed	5V
1 [ ] [ ] [ ] 3 2-3 Closed	5V_SB

**4-12. 5V / 5VSB Selection for USB: J USBV3**

J USBV3	Assignment
1 [ ] [ ] [ ] 3 1-2 Closed	5V
1 [ ] [ ] [ ] 3 2-3 Closed	5V_SB

**4-13. 5V / 5VSB Selection for USB: J USBV4**

(only for South Bridge VT8235)

J USBV4	Assignment
1 [ ] [ ] [ ] 3 1-2 Closed	5V
1 [ ] [ ] [ ] 3 2-3 Closed	5V_SB

**4-14. Front 1394 Header: J 1394A1(Optional)**

Pin	Assignment	Pin	Assignment
<b>1</b>	A+	<b>2</b>	A-
<b>3</b>	Ground	<b>4</b>	Ground
<b>5</b>	B+	<b>6</b>	B-
<b>7</b>	+12V	<b>8</b>	+12V
<b>9</b>	KEY	<b>10</b>	Ground

**4-15. Front 1394 Header: J1394B1(Optional)**

<b>Pin</b>	<b>Assignment</b>	<b>Pin</b>	<b>Assignment</b>
<b>1</b>	A+	<b>2</b>	A-
<b>3</b>	Ground	<b>4</b>	Ground
<b>5</b>	B+	<b>6</b>	B-
<b>7</b>	+12V	<b>8</b>	+12V
<b>9</b>	KEY	<b>10</b>	Ground

**4-16. Front 1394 Header: J1394C1(Optional)**

<b>Pin</b>	<b>Assignment</b>	<b>Pin</b>	<b>Assignment</b>
<b>1</b>	A+	<b>2</b>	A-
<b>3</b>	Ground	<b>4</b>	Ground
<b>5</b>	B+	<b>6</b>	B-
<b>7</b>	+12V	<b>8</b>	+12V
<b>9</b>	KEY	<b>10</b>	Ground

**4-17. CNR Codec Primary/ Secondary Selection:  
JCODECSEL**

<b>Pin No.</b>	<b>Assignment</b>
<b>1-2</b>	On-board Primary Codec
<b>2-3</b>	CNR Primary Codec

## 5. RAM Module Configuration

### 5-1. DDR SDRAM

DRAM Access Time: 2.5V Unbuffered DDR SDRAM PC1600/ PC2100 Type required.

DRAM Type: 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

#### Total Memory Size with unbuffer DI MMs

(Only for reference)

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DDR 1	64MB/128MB/256MB/512MB/1GB *1	Max is 2GB
DDR 2	64MB/128MB/256MB/512MB/1GB *1	

### 5-2 SDRAM

DRAM Access Time: 3.3V Unbuffered SDRAM PC100/ PC133 Type required.

DRAM Type: 128MB/ 256MB/ 512MB/ 1GB DIMM Module (168 pin)

#### Total Memory Size with unbuffer DI MMs

(Only for reference)

DIMM Socket Location	SDR Module	Total Memory Size (MB)
SDR 1	64MB/128MB/256MB/512MB/1GB *1	Max is 2GB
SDR 2	64MB/128MB/256MB/512MB/1GB *1	

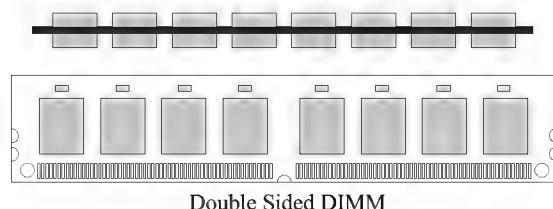
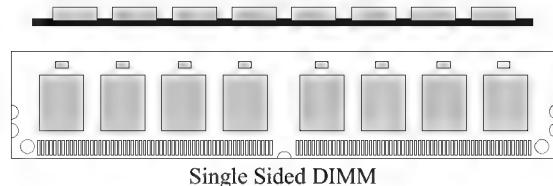
● When you use DDR SDRAM, the memory power will automatically set to 2.5V.

● When you use SDRAM, the memory power will automatically set to 3.3V.

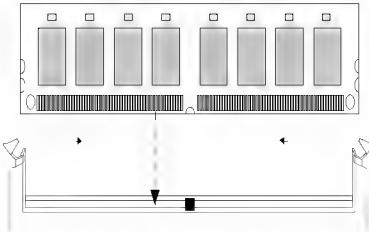
● For the above settings, you can only use one kind of memory on this motherboard. It is forbidden to insert both kind of memory simultaneously. You must insert only DDR or SDRAM.

### 5-3. How to install DDR/ SDRAM DIMM Module

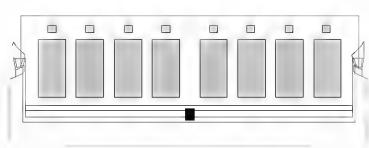
**DDR SDRAM:**



1. The DDR DIMM socket has a "Plastic Safety Tab", and the DDR DIMM memory module has an Asymmetrical notch", so the DDR DIMM memory module can only fit into the slot in one direction.

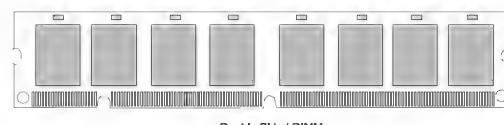
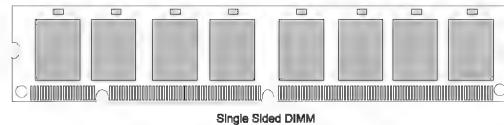


2. Push the tabs out. Insert the DDR DIMM memory modules into the socket at a 90-degree angle, then push down vertically so that it will fit into the place.

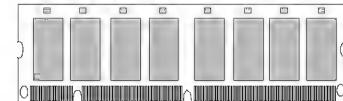


3. The Mounting Holes and plastic tabs should fit over the edge and hold the DDR DIMM memory modules in place.

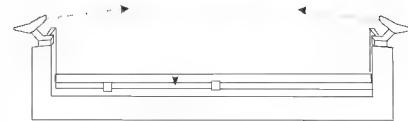
**SDRAM:**



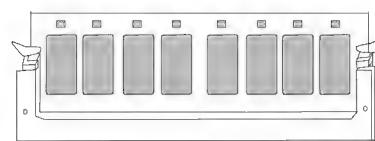
1. The SDRAM DIMM socket has a "Plastic Safety Tab", and the SDRAM DIMM memory module has an Asymmetrical notch", so the SDRAM DIMM memory module can only fit into the slot in one direction.



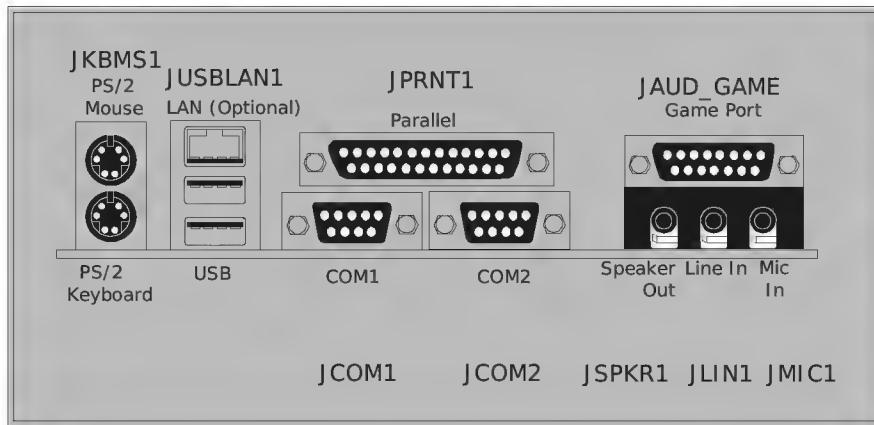
2. Push the tabs out. Insert the SDRAM DIMM memory modules into the socket at a 90-degree angle, then push down vertically so that it will fit into the place.



3. The Mounting Holes and plastic tabs should fit over the edge and hold the SDRAM DIMM memory modules in place.



## 6. Peripheral Port Features



### 6-1. PS/ 2 Mouse / Keyboard Connector: JKBMIS1

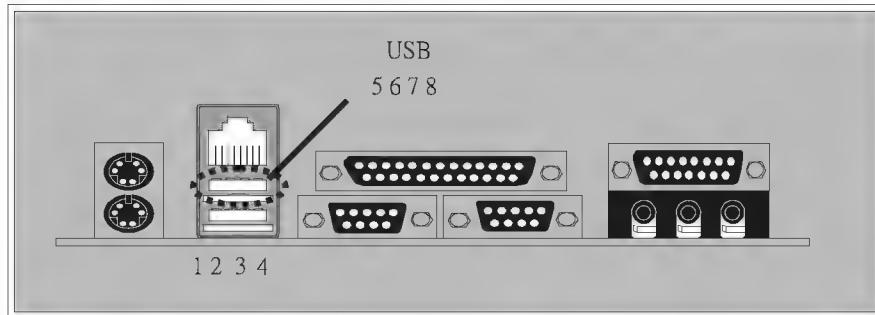
The motherboard provides a standard PS/2 mouse / Keyboard mini DIN connector for attaching a PS/2 mouse. You can plug a PS/2 mouse / Keyboard directly into this connector. The connector location and pin definition are shown below:

**PS/ 2 Mouse / Keyboard Connectors**

Pin	Assignment
1	Data
2	No connect
3	Ground
4	+5 V (fused)
5	Clock
6	No connect

## 6-2. USB & LAN Port Connectors: JUSBLAN1

### 6-2-1. USB Connectors:



**USB Connector (the below one)**

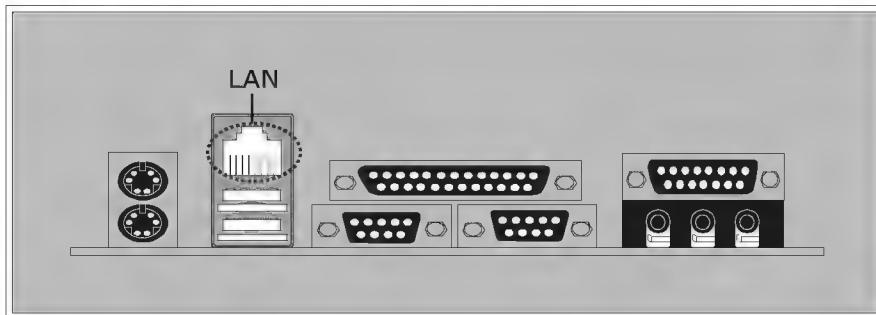
Pin	Assignment
1	+5 V (fused)
2	USBP1-
3	USBP1+
4	Ground

**USB Connector (the above one)**

Pin	Assignment
5	+5 V (fused)
6	USBP2-
7	USBP2+
8	Ground

### 6-2-2. LAN Port Connector (Optional) (only for South Bridge VT8235)

This connector allows you to connect to the Internet through a Local Area Network (LAN). You can set up the connection by entering account information provided by your ISP.



**LAN Port Connector**

Pin	Assignment
9	VCC3
10	TD+
11	TD-
12	RD+
13	RD-
14	NC

## 6-3. Serial and Parallel Interface Ports

This system comes equipped with one serial port and one parallel port. Both types of interface ports will be explained in this chapter.

### 6-3-1. The Serial Interface: J COM1/ J COM2

The serial interface port is sometimes referred to as an RS-232 port or an asynchronous communication port. Mice, printers, modems and other peripheral devices can be connected to a serial port. The serial port can also be used to connect your computer with another computer system.

#### Connectivity

The serial ports can be used in many ways, and it may be necessary to become familiar with the pinout diagram. The following chart gives you the function of each pin on the 9-pin connector and some of the 25-pin connector. This information can be used when configuring certain software programs to work with the serial ports.

Signal	Name	DB9 PIN	DB25 PIN
DCD	Data Carrier Detect	1	8
RX	Receive Data	2	3
TX	Transmit Data	3	2
DTR	Data Terminal Ready	4	20
GND	Signal Ground	5	7
DSR	Data Set Ready	6	6
RTS	Request to Send	7	4
CTS	Clear to Send	8	5
RI	Ring Indicator	9	22

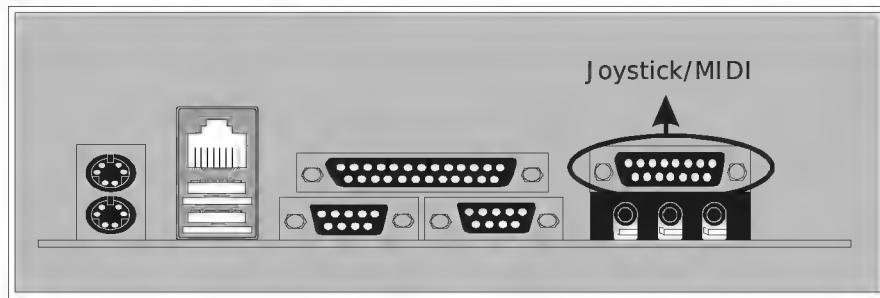
### 6-3-2. Parallel Interface Port: JPRNT1

Unlike the serial ports, parallel interface port has been standardized and should not present any difficulty interfacing peripherals to your system. Sometimes called centronics port, the parallel port is almost exclusively used with printers. The parallel port on your system has a 25-pin, DB25 connector. The pinout for the parallel port are shown in the table below.

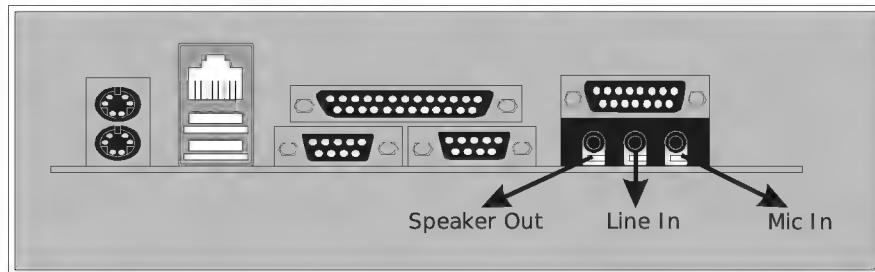
Pin	Signal
1	-Strobe
2	Data 0
3	Data 1
4	Data 2
5	Data 3
6	Data 4
7	Data 5
8	Data 6
9	Data 7
10	-Ack
11	Busy
12	Paper Empty
13	+Select
14	-Auto FDXT
15	-Error
16	-Init
17	-SLCTN
18	Ground
19	Ground
20	Ground
21	Ground
22	Ground
23	Ground
24	Ground
25	Ground

#### 6-4. Game (Joystick/ MIDI) Port Connector: JAUD\_GAME

This connector allows you to connect a joystick or game pad for playing computer games. Also, you may play or edit professional music by connecting MIDI devices.

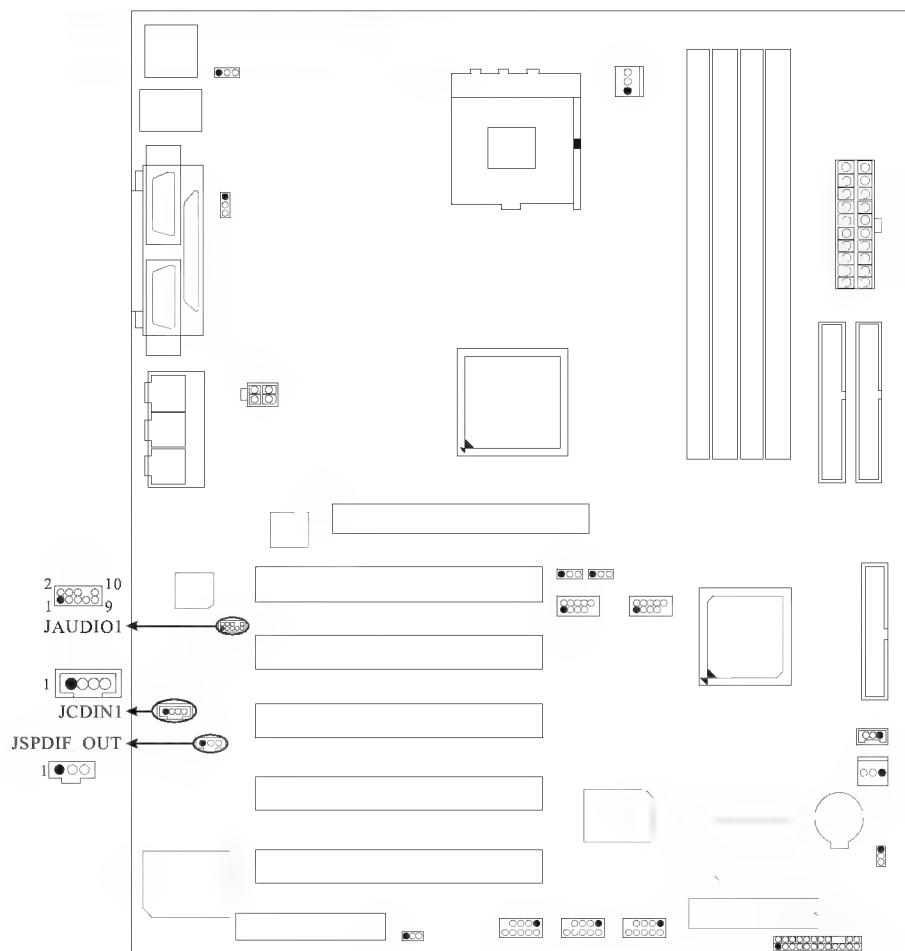


#### 6-5. Audio Port Connectors: JSPEAKER1/ JLINEIN1/ JMIC1



1. **Speaker Out** is used to connect speakers or headphones for audio output.
2. **Line In** can be connected to the external CD player, Tape player or other audio devices for audio input.
3. **Mic In** is used to connect a microphone, which allows you to input sounds and voices.

## 6-6. Audio Subsystem



#### 6-6-1. CD-ROM Audio-In Header: JCDIN1

Pin No.	Assignment
1	Left Channel Input
2	Ground
3	Ground
4	Right Channel Input

#### 6-6-2. Front Panel Audio Header: JAUDIO1

Pin No.	Assignment	Pin No.	Assignment
1	Mic In	2	Ground
3	Mic Power	4	Audio Power
5	RT Line Out	6	RT Line Out
7	Reserved	8	
9	LFT Line Out	10	LFT Line Out

#### 6-6-3. Digital Audio Connector: JSPIF\_OUT

Pin No.	Assignment
1	5V
2	SPDIF_OUT
3	Ground

## Français

### 1. U8568 Pro Particularités (pour V1.0):

#### CPU :

- Fournit la Douille 478.
- Soutient Intel le Pentium 4 processeur jusqu'à 2.8GHz.
- Dirigeant à Autobus de Côté de Devant.

#### Chipset :

- Pont du Nord : VIA VT 8753E (P4X266E).
- Pont du Sud : VT8235.

#### Superbe I/O:

- Chipset - ITE IT8705.

#### Mémoire Principale :

- Soutient les dispositifs de 2 SDR ou les dispositifs de 2 DDR.
- Soutient le MHz 200/266 (sans CEE) DDR SDRAM ou PC100/133 SDRAM.
- La plus grande capacité de mémoire(souvenir) est 2GB.

#### Fentes :

- Cinq fentes de maître d'autobus PCI 32 bits.
- Une fente CNR.
- Une fente AGP.

#### À bord IDE :

- Soutient quatre lecteurs de disques d'IDE.
- Soutient PIO Mode 4, le Mode de Maître et DMA Ultra 33/66/100/133 le Mode de Maître d'Autobus.

#### 1394 Chip (Facultatif) :

- Soutiennent 3 ports avec le taux de transfert jusqu'à 400Mbps.

#### Audio:

7. CMI 8738.
8. 6CH DAC pour AC3®.
9. Supporte les haut-parleurs de 4.1/5.1 et les C3DX audio dans la

mode des haut-parleurs de 4/6CH.

**10.** Construit dans le port de ZV.

**À bord Périphériques :**

11. Soutient 360Ko, 720Ko, 1.2MB, 1.44MB et 2.88MB des conducteurs de disquette. –
12. Soutient 2 ports périodiques.
13. - Soutient 1 multi-mode port parallèle. (SPP/EPP/ECP mode)
14. - Soutient le souris de PS/2 et le clavier de PS/2.
15. - Soutient 2 ports d'USB2.0 en arrière et 4 ports de USB2.0 en avant.

**BIOS :**

16. ACCORDENT le BIOS légal.
17. Soutient APM1.2.
18. Soutient ACPI.
19. Soutient la Fonction d'USB.

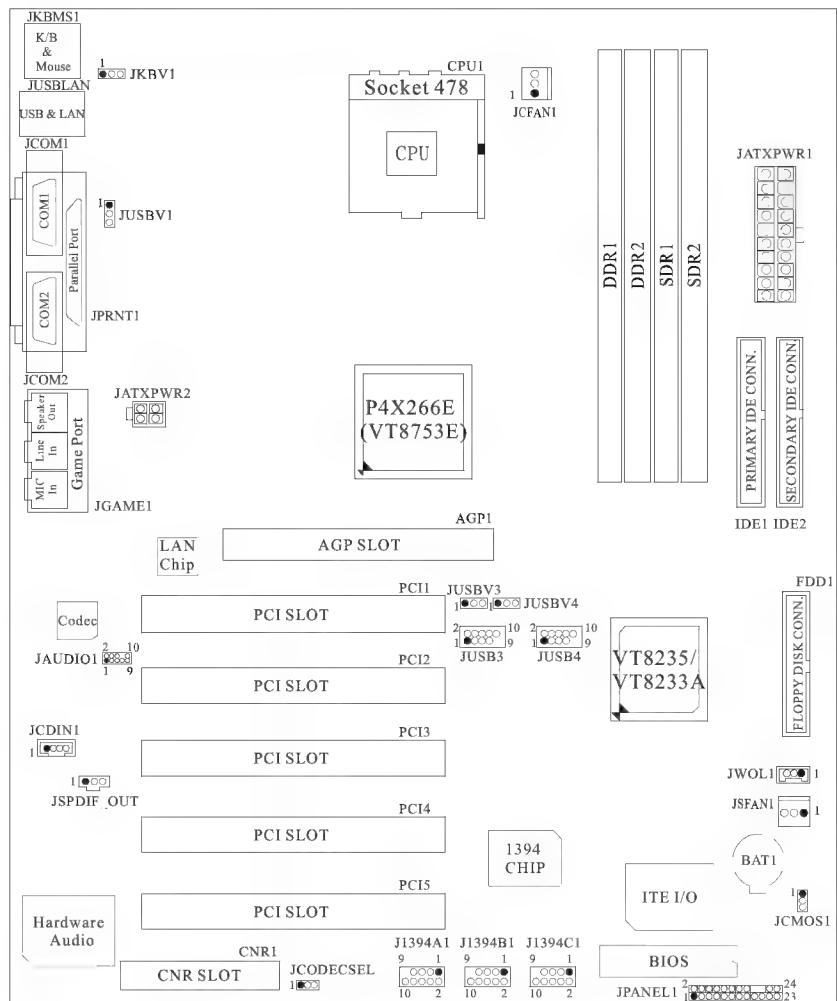
**Système de Fonctionnement :**

20. Offre l'exécution(performance) la plus haute pour MS-DOS, Windows 2000, des Fenêtres Moi, Windows XP, SCO UNIX etc.

**Dimensions :**

- ATX Forment le Facteur : 24.5cm X 30.5cm (W X L)

## 2. Dessin d'U8568 Pro



## WarpSpeeder



### Introduction

[ WarpSpeeder™ ], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [ WarpSpeeder™ ] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

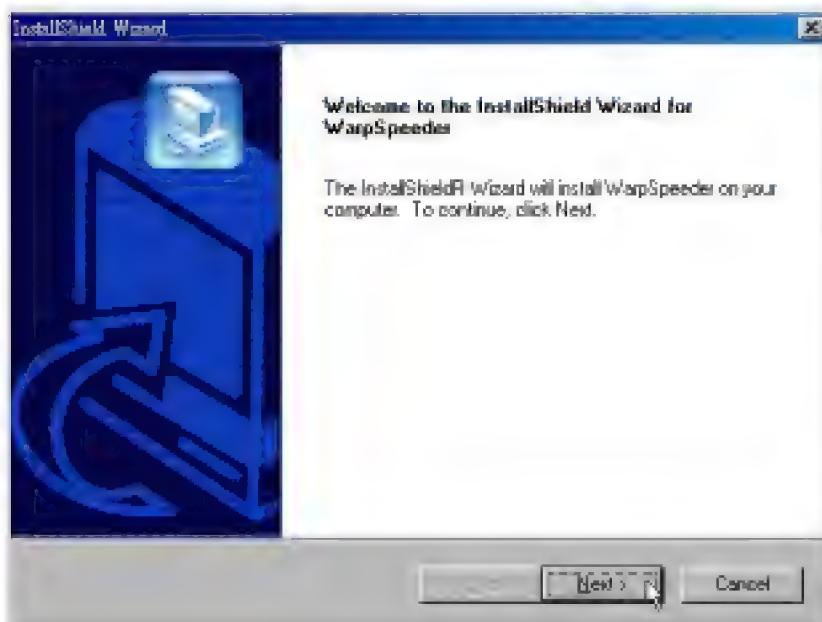
## System Requirement

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

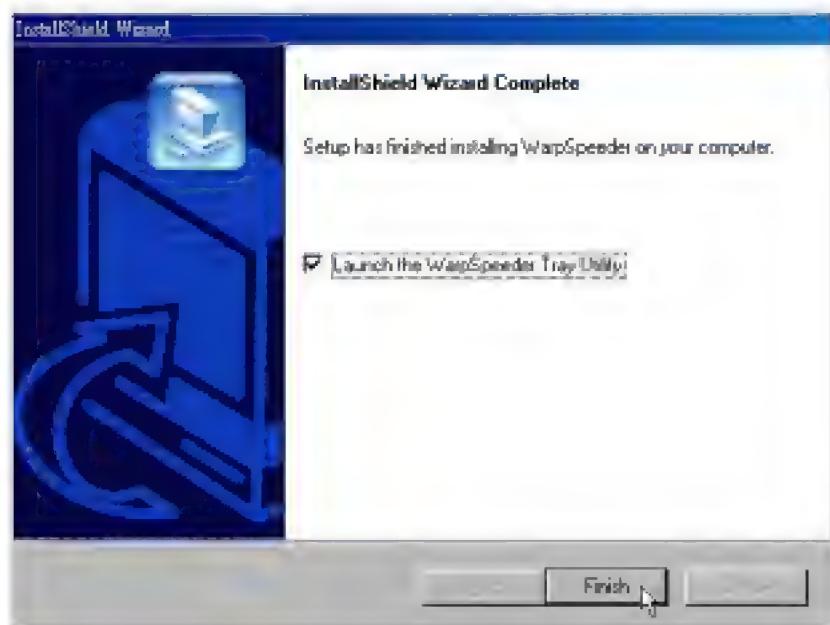
DIRECTX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

## Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [ WarpSpeeder™ ] utility will be automatically and immediately launched after you click "Finish" button.



## Usage

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

[ WarpSpeeder™ ] includes 1 tray icon and 5 panels:

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [ WarpSpeeder™ ] Utility. You can use the mouse by clicking the left button in order to invoke [ WarpSpeeder™ ] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



## 2. Main Panel

If you click the tray icon, [ WarpSpeeder™ ] utility will be invoked. Please refer

do the following figure; the utility's first window you will see is Main Panel.

Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Man walking => overclock  
percentage from 100% ~ 110 %

Panther running => overclock  
percentage from 110% ~ 120%

Car racing => overclock percentage  
from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



#### 4. Overclock Panel

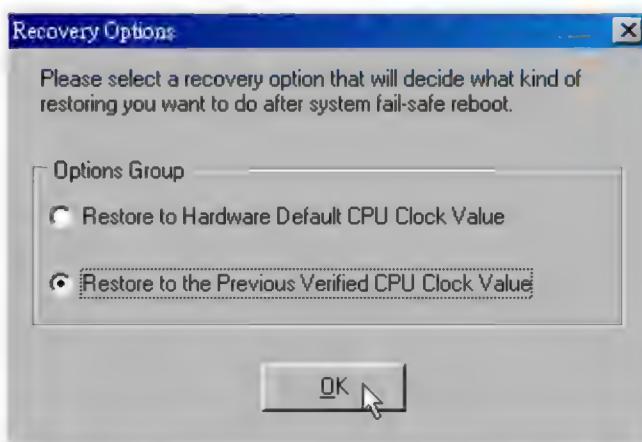
Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

Overclock Panel contains the these features:

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

**Warning:** Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [ WarpSpeeder™ ] automatically gets the best result for you.

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [ WarpSpeeder™ ] will set the best and stable performance and frequency automatically. [ WarpSpeeder™ ] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog’s setting.

- d. “Verify button”: User can click this button and [ WarpSpeeder™ ] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [ WarpSpeeder™ ]

utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

**Note:** Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color( 24/32 bit ) that is required for Direct3D rendering.



##### 5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



## 6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [ WarpSpeeder™ ] utility.



Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [ WarpSpeeder™ ] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [ WarpSpeeder™ ] utility more robust.

Mainboard Features

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02/26/2003

